

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P865910

Luminaire Tested: PRLX-2001-M-927-25L-G-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-M-927-25L-G-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

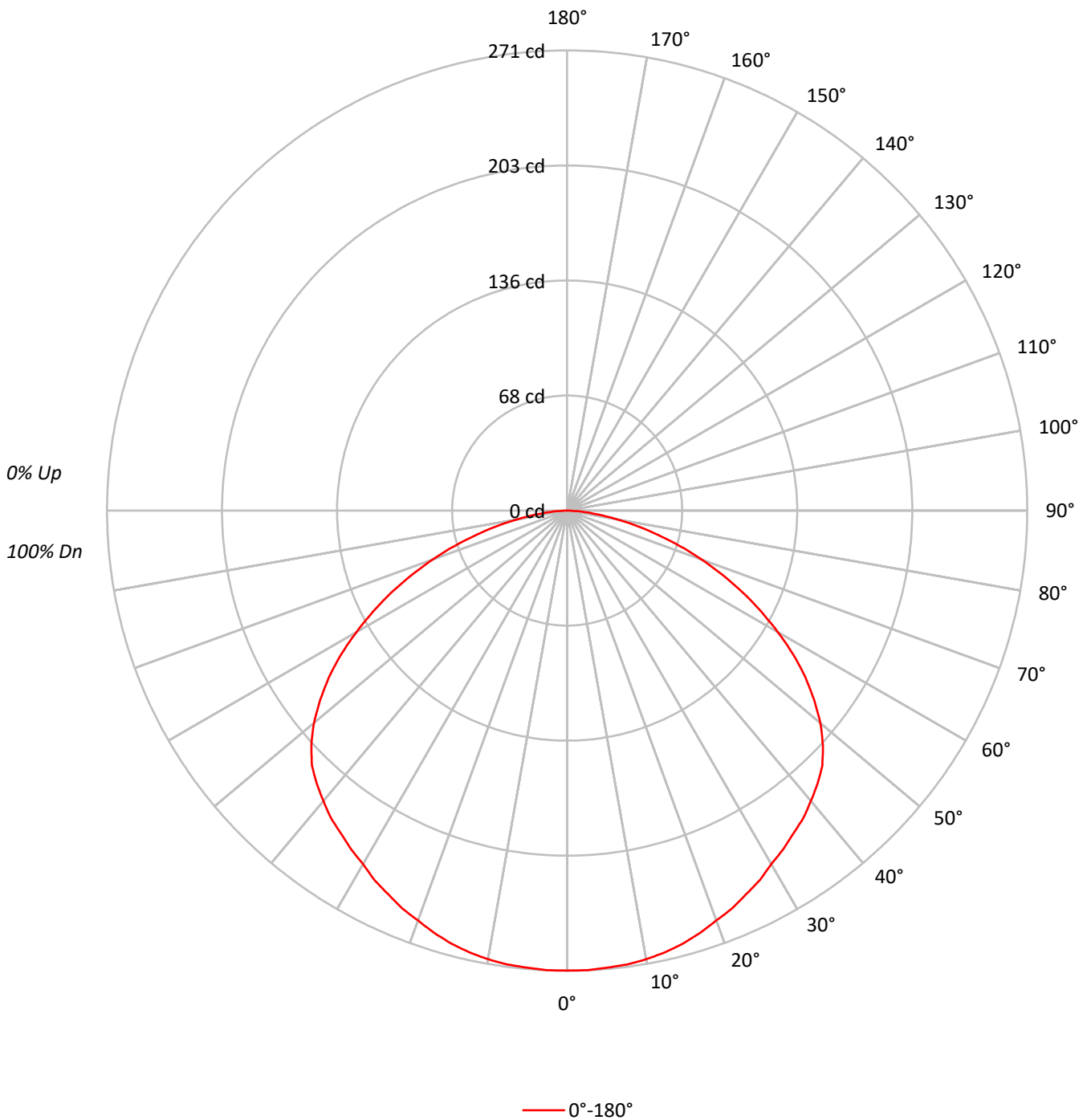
Lumens per Lamp: N/A
Luminaire Lumens: 861.4 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69	64	60	58
4	82	69	61	54	79	68	60	53	66	58	53		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2299
5°	2302
10°	2312
15°	2318
20°	2320
25°	2334
30°	2356
35°	2405
40°	2474
45°	2550
50°	2570
55°	2534
60°	2434
65°	2293
70°	2094
75°	1810
80°	1456
85°	983

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 2570 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.7	3.0
10°-20°	74.5	8.6
20°-30°	115.2	13.4
30°-40°	145.7	16.9
40°-50°	163.1	18.9
50°-60°	152.4	17.7
60°-70°	112.8	13.1
70°-80°	59.2	6.9
80°-90°	12.8	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	215.4	25.0
0°-40°	361.1	41.9
0°-60°	676.6	78.5
0°-90°	861.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	861.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	271	
5°	270	26
15°	264	75
25°	249	115
35°	232	146
45°	212	163
55°	171	152
65°	114	113
75°	55	59
85°	10	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	270.9
2.5°	270.9
5°	270.2
7.5°	269.6
10°	268.3
12.5°	266.4
15°	263.9
17.5°	260.7
20°	256.9
22.5°	253.7
25°	249.3
27.5°	245.5
30°	240.4
32.5°	236.6
35°	232.2
37.5°	228.4
40°	223.3
42.5°	218.2
45°	212.5
47.5°	204.3
50°	194.7
52.5°	183.3
55°	171.3
57.5°	157.9
60°	143.4
62.5°	128.8
65°	114.2
67.5°	99.0
70°	84.4
72.5°	69.8
75°	55.2
77.5°	42.5
80°	29.8
82.5°	19.0
85°	10.1
87.5°	3.2
90°	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.66	17.33	16.02	17.64	17.96	15.66	17.33	16.02	17.64	17.96
	3H	17.32	18.83	17.70	19.16	19.52	17.32	18.83	17.70	19.16	19.52
	4H	17.88	19.31	18.28	19.65	20.03	17.88	19.31	18.28	19.65	20.03
	6H	18.24	19.56	18.65	19.93	20.32	18.24	19.56	18.65	19.93	20.32
	8H	18.33	19.59	18.76	19.98	20.38	18.33	19.59	18.76	19.98	20.38
	12H	18.38	19.59	18.80	19.97	20.40	18.38	19.59	18.80	19.97	20.40
4H	2H	16.27	17.69	16.66	18.04	18.41	16.27	17.69	16.66	18.04	18.41
	3H	18.14	19.33	18.55	19.73	20.13	18.14	19.33	18.55	19.73	20.13
	4H	18.81	19.89	19.24	20.30	20.73	18.81	19.89	19.24	20.30	20.73
	6H	19.28	20.22	19.73	20.66	21.11	19.28	20.22	19.73	20.66	21.11
	8H	19.40	20.28	19.86	20.72	21.18	19.40	20.28	19.86	20.72	21.18
	12H	19.47	20.26	19.95	20.74	21.20	19.47	20.26	19.95	20.74	21.20
8H	4H	19.07	19.95	19.53	20.39	20.86	19.07	19.95	19.53	20.39	20.86
	6H	19.63	20.36	20.12	20.84	21.32	19.63	20.36	20.12	20.84	21.32
	8H	19.79	20.45	20.30	20.96	21.44	19.79	20.45	20.30	20.96	21.44
	12H	19.91	20.49	20.41	20.98	21.54	19.91	20.49	20.41	20.98	21.54
12H	4H	19.09	19.88	19.57	20.36	20.82	19.09	19.88	19.57	20.36	20.82
	6H	19.65	20.31	20.16	20.82	21.30	19.65	20.31	20.16	20.82	21.30
	8H	19.87	20.45	20.37	20.94	21.50	19.87	20.45	20.37	20.94	21.50